

OUTPUT

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mysql> create table dept (  
    -> deptno varchar(20),  
    -> deptname varchar(20),  
    -> staffno varchar(20),  
    -> primary key (deptno) );  
Query OK, 0 rows affected (0.36 sec)  
  
mysql> insert into dept values  
    -> ('d1','CS','S101'),('d2','EC','S110'),('d1','EEE','S201') ;  
ERROR 1062 (23000): Duplicate entry 'd1' for key 'dept.PRIMARY'  
  
////////////////////////////////////  
  
mysql> create table book (  
    -> title varchar(20) primary key,  
    -> author varchar(20) );  
  
Query OK, 0 rows affected (1.65 sec)  
  
mysql> insert into book values  
    -> ('DBMS','Navathe'),('C','Dennis Ritchie'),('DBMS','Korth') ;  
ERROR 1062 (23000): Duplicate entry 'DBMS' for key 'book.PRIMARY'  
  
////////////////////////////////////  
  
mysql> create table library (  
    -> title varchar(20) references book(title),  
    -> author varchar(20),  
    -> numofcopies int );  
Query OK, 0 rows affected (0.15 sec)  
  
mysql> insert into library values  
    -> ('C','Dennis Ritchie',5), ('DBMS','Navathe',10), ('OS','Korth',20);  
Query OK, 3 rows affected (0.01 sec)  
Records: 3 Duplicates: 0 Warnings: 0  
  
mysql> alter table library add primary key (title,author);  
Query OK, 0 rows affected (0.17 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
mysql> desc library;  
+-----+-----+-----+-----+-----+-----+  
| Field          | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| title          | varchar(20)   | NO   | PRI | NULL    |      |  
| author         | varchar(20)   | NO   | PRI | NULL    |      |  
| numofcopies    | int           | YES  |     | NULL    |      |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.09 sec)  
  
////////////////////////////////////  
  
mysql> create table student (  
    -> rollno int,  
    -> name varchar(20),
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    -> deptno varchar(20),
    -> primary key (rollno) );
Query OK, 0 rows affected (0.36 sec)

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mysql> alter table student add foreign key (deptno) references
dept(deptno);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0

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mysql> desc student;
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Field	Type	Null	Key	Default	Extra
rollno	int	NO	PRI	NULL	
name	varchar(20)	YES		NULL	
deptno	varchar(20)	YES	MUL	NULL	

3 rows in set (0.00 sec)

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mysql> select * from dept;
Empty set (0.00 sec)

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mysql> desc dept;
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Field	Type	Null	Key	Default	Extra
deptno	varchar(20)	NO	PRI	NULL	
deptname	varchar(20)	YES		NULL	
staffno	varchar(20)	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> insert into student values
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    -> (10,'Aswathy','d1'),(20,'Akash','d3'),(30,'Arun','d2');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key
constraint fails (`gk52`.`student`, CONSTRAINT `student_ibfk_1` FOREIGN
KEY (`deptno`) REFERENCES `dept` (`deptno`))

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mysql> create table account (
    -> accno int primary key,
    -> amount int,
    -> check(amount>250) );

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Query OK, 0 rows affected (1.70 sec)
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mysql> insert into account values
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    -> (147,1000),(210,5000),(717,100),(623,5001) ;
ERROR 3819 (HY000): Check constraint 'account_chk_1' is violated.

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